

## ABSTRACT

A memory rewriting system for a vehicle controller is provided. The system comprises a vehicle controller and an external rewriting device. A vehicle controller comprises a rewritable memory storing first security data. The first security data is used to determine whether rewriting to the rewritable memory is permitted. The rewriting device transfers new security data to the vehicle controller. The vehicle controller deletes the first security data and writes the new security data into the rewritable memory. Rewriting the new security data is performed by a program stored in a non-rewritable memory. Thus, the security data that is used to determine whether rewriting to the rewritable memory is permitted is rewritten with the new security data. Therefore, if the existing security data stored in the vehicle controller is invalidated, the security feature of the vehicle can be recovered. The vehicle may include an anti-theft system. In this case, rewriting to the rewritable memory is permitted if the anti-theft system permits an operation as to the vehicle.

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